Performance Data Sheet

TPA9421YXA

General Information

Model	TPA9421YXA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	1680	1560	1430	1300	1170	1050	920
	Watts	305	310	314	319	324	328	333
	Amps	5.99	5.99	5.98	5.98	5.97	5.97	5.97
	Lb/h	23.8	22.9	21.9	21.0	20.0	19.0	18.1
5	Btu/h	1960	1810	1660	1510	1360	1220	1070
	Watts	321	327	333	339	345	352	358
	Amps	6.02	6.02	6.03	6.03	6.03	6.03	6.04
	Lb/h	27.5	26.4	25.4	24.3	23.2	22.2	21.1
10	Btu/h	2260	2090	1920	1750	1580	1410	1240
	Watts	337	345	352	360	368	376	383
	Amps	6.08	6.09	6.10	6.12	6.13	6.14	6.15
	Lb/h	31.7	30.5	29.3	28.1	27.0	25.8	24.6
15	Btu/h	2590	2390	2200	2010	1810	1620	1430
	Watts	354	363	372	382	391	400	410
	Amps	6.15	6.18	6.21	6.23	6.25	6.28	6.30
	Lb/h	36.4	35.1	33.8	32.5	31.2	29.9	28.6
20	Btu/h	2940	2730	2510	2290	2080	1860	1640
	Watts	372	382	393	404	415	426	437
	Amps	6.24	6.28	6.32	6.36	6.40	6.44	6.47
	Lb/h	41.6	40.1	38.7	37.3	35.9	34.5	33.1
25	Btu/h	3330	3090	2850	2610	2370	2130	1890
	Watts	390	402	415	427	440	452	464
	Amps	6.33	6.39	6.45	6.50	6.56	6.61	6.66
	Lb/h	47.3	45.7	44.2	42.7	41.1	39.6	38.1
30	Btu/h	3750	3490	3220	2950	2690	2420	2160
	Watts	409	423	437	451	465	479	493
	Amps	6.41	6.49	6.57	6.64	6.72	6.79	6.85
	Lb/h	53.5	51.8	50.2	48.5	46.9	45.2	43.6

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.701919E+03	2.672180E+02	6.032187E+00	3.143549E+01
C2	8.838509E+01	5.606495E-01	-1.271852E-02	8.666074E-01

C3	-1.271248E+01	4.703358E-01	-5.656737E-04	-9.540692E-02
C4	5.321248E-01	1.405498E-02	3.614990E-04	9.970848E-03
C5	-4.498997E-01	3.105099E-02	2.243940E-04	-2.250253E-03
C6	-6.198066E-04	5.681768E-05	8.832423E-07	1.021851E-05
C7	3.269425E-03	3.194112E-06	-1.204227E-05	9.053923E-06
C8	-1.302313E-03	3.499308E-06	4.861035E-06	-2.857291E-06
C9	1.281467E-04	-1.017079E-06	-4.866127E-07	1.781029E-07
C10	3.565353E-06	-4.250078E-07	-1.531409E-09	-8.116553E-08

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

TPA9421YXA

General Information

Model	TPA9421YXA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	3060	2850	2650	2450	2240	2030	1820
	Watts	368	382	395	409	421	433	445
	Amps	6.32	6.37	6.43	6.49	6.55	6.61	6.67
	Lb/h	40.4	39.2	38.0	36.8	35.5	34.3	33.2
25	Btu/h	3500	3270	3030	2800	2560	2320	2080
	Watts	386	401	416	431	446	460	473
	Amps	6.34	6.41	6.48	6.56	6.63	6.70	6.77
	Lb/h	46.1	44.7	43.3	42.0	40.6	39.2	37.8
30	Btu/h	3980	3710	3440	3170	2900	2640	2360
	Watts	406	422	438	455	471	487	502
	Amps	6.38	6.47	6.56	6.65	6.74	6.83	6.91
	Lb/h	52.4	50.9	49.3	47.8	46.2	44.7	43.1
35	Btu/h	4480	4180	3880	3580	3280	2980	2680
	Watts	429	445	462	480	497	514	532
	Amps	6.46	6.57	6.67	6.78	6.88	6.98	7.08
	Lb/h	59.2	57.6	55.9	54.2	52.5	50.8	49.1
40	Btu/h	5020	4690	4350	4020	3680	3350	3020
	Watts	454	471	489	506	525	543	562
	Amps	6.56	6.69	6.81	6.93	7.05	7.17	7.29
	Lb/h	66.5	64.8	63.0	61.2	59.4	57.6	55.7
45	Btu/h	5600	5220	4850	4490	4120	3750	3390
	Watts	483	500	518	536	555	574	594
	Amps	6.70	6.84	6.97	7.11	7.25	7.38	7.52
	Lb/h	74.3	72.5	70.7	68.8	66.9	64.9	62.9
50	Btu/h	6200	5800	5390	4990	4580	4180	3780
	Watts	516	532	550	568	587	607	627
	Amps	6.85	7.01	7.17	7.32	7.47	7.63	7.78
	Lb/h	82.5	80.7	78.8	76.9	74.8	72.8	70.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.160090E+03	2.404105E+02	6.557296E+00	2.886343E+01
C2	1.138191E+02	1.092855E-01	-4.744141E-02	8.365702E-01

C3	-7.209774E+00	9.385167E-01	-2.927812E-04	-6.629784E-02
C4	6.141682E-01	4.090144E-02	5.891891E-04	1.161019E-02
C5	-6.557067E-01	2.129707E-02	3.083331E-04	-2.830630E-03
C6	3.872849E-04	-2.019189E-05	8.856411E-07	2.361962E-05
C7	1.585105E-03	6.717546E-04	-1.145357E-06	-4.357078E-05
C8	-1.605484E-03	-6.526473E-04	1.006650E-06	3.988442E-05
C9	5.125883E-04	1.997683E-04	-2.743587E-07	-1.142332E-05
C10	-5.421137E-05	-1.896295E-05	1.598544E-08	8.297629E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature